$$\int_{0}^{\sqrt{6}} \int_{x^{2}}^{2} 6xy^{2} dy dx$$

$$\int_{0}^{6} \int_{0}^{\sqrt{9}} 6xy^{2} dx dy$$

$$\int_{0}^{6} \int_{0}^{\sqrt{9}} 6xy^{2} dx dy$$

$$\int_{0}^{6} \int_{0}^{\sqrt{9}} 6xy^{2} dx dy dx$$

$$\int_{0}^{6} \int_{0}^{\sqrt{9}} 6xy^{2} dx dy dx$$

$$\int_{-1}^{1} \int_{-1}^{1} \int_{-1}^{1} f(y)^{2}(y) - 9y^{2}(-y-x) dy$$

$$\int_{-1}^{1} \left[ 9\gamma^{3} + 9\gamma^{3} + 18\gamma^{2} \right] dy$$

$$\frac{18}{4}\gamma^{4} + 6\gamma^{3} \Big[ \frac{1}{1}$$

$$\gamma = x - i 2$$

$$x = y^{2}$$

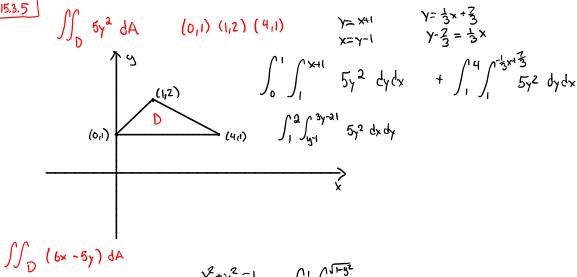
$$x=y^{2} \quad y=x-12$$

$$y=y^{2}-12$$

$$0=y^{2}-y-12$$

$$\int_{-3}^{4} \left( y^{2} + 12y - y^{3} \right) dy$$

$$\frac{1}{3}y^{3} + 6y^{2} - \frac{1}{4}y^{4} \Big|_{-3}^{4}$$



$$(6x - 5y) dA$$

$$\chi^2 = 1 - \gamma^2$$

$$\chi = \pm \sqrt{1 - y^2}$$

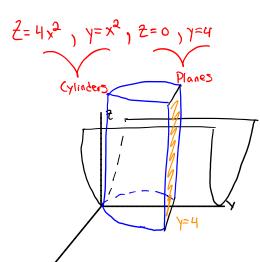
$$\int_{-1}^{1} \left[ 3x^{2} - 5yx \right] \frac{\sqrt{1-y^{2}}}{-\sqrt{1-y^{2}}} dy$$

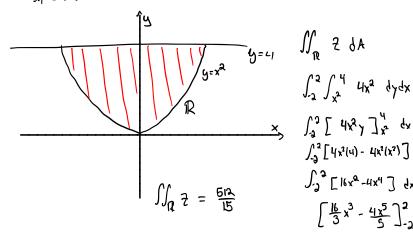
$$\int_{-1}^{1} \left[ 3\left( 1-y^{2} \right)^{2} - 5y \left( \sqrt{1-y^{2}} \right) \right) - \left( 3\left( -\sqrt{1-y^{2}} \right)^{2} - 5y \left( \sqrt{1-y^{2}} \right) \right)$$

$$\int_{-1}^{1} -10 \, y \sqrt{1-y^2} \, dy$$

$$\int_{-1}^{1} -5 \sqrt{u} \, du$$

$$\int_{-5}^{1} (u)^{\frac{1}{2}} \, du$$





$$\int_{2}^{2} \int_{x^{2}}^{4} 4x^{2} dy dx$$

$$\times \int_{2}^{2} \left[ 4x^{2}y \right]_{x^{2}}^{4} dy$$

$$\times \int_{2}^{2} \left[ 4x^{2}(u) - 4x^{2}(x^{2}) \right] dx$$

$$\int_{2}^{2} \left[ 16x^{2} - 4x^{4} \right] dx$$

$$\left[ \frac{16}{3}x^{3} - \frac{4x^{5}}{5} \right]_{-2}^{2}$$

$$\frac{16}{3}(6) - 4 \frac{(32)}{5} - \left( \frac{16}{3}(x^{2})^{3} - \frac{4(x^{2})^{5}}{5} \right)$$

$$\frac{125}{3} - \frac{125}{5} - \left( -\frac{125}{3} + \frac{125}{5} \right)$$

$$\frac{512}{5}$$

